

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/931,101	08/17/2001	. Anh Nguyen	XMS-104	3650
7590 06/30/2005			EXAMINER	
WAN-CHING Y MONTFORT			HASHEM, LISA	
SHAW PITTMAN 1650 TYSONS BOULEVARD		ART UNIT	PAPER NUMBER	
MCLEAN, VA 22102			2645	
				•

DATE MAILED: 06/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/931,101	NGUYEN ET AL.			
		Examiner	Art Unit			
		Lisa Hashem	2645			
Period for A SH THE - Exte after - If the - If NO	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period w	IS SET TO EXPIRE 3 MONTH 36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) day	I(S) FROM imely filed ays will be considered timely. In the mailing date of this communication.			
Any :	re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).					
Status	·					
1)⊠	Responsive to communication(s) filed on <u>09 March 2005</u> .					
•	, —	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1,3-25 and 27-29 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1, 3-25, and 27-29 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	ion Papers					
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accerding accerding a specific and any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority (under 35 U.S.C. § 119					
12) a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applica ity documents have been receiv ı (PCT Rule 17.2(a)).	tion No /ed in this National Stage			
Attachmen	t(s)					
2) Notic 3) Infor	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:				

Art Unit: 2645

FINAL DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1, 10, 18, and 25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 claims the following limitation '... the regulator being powered by the first voltage signal...'. Claim 10 claims the following limitation '... the voltage regulator is powered by the signal generating source...'. Claim 18 claims the following limitation '... the regulator being powered by the signal generating source...'. Claim 25 claims the following limitations '... supplying power to a regulator...' and '... the regulator receiving power from said detection signal...'.

Section 0024 of the claimed invention discloses '... As shown, a detection signal (e.g., a voltage signal from source 22) from radio receiver 20 is applied to RF choke 40. The DC signal passes through RF choke 42 where it is fed back to radio receiver 20 through the terrestrial RF out 15b. Capacitors 44a and 44b are DC blocking capacitors. In this case, the voltage signal that is passed from the satellite 'RF out' 15a to the terrestrial 'RF out' 15b of LNA module 14 is unregulated...'. Section 0025 of the claimed invention discloses '... Figure 2 also shows

Page 3

Art Unit: 2645

voltage regulator 46, which provides a regulated DC voltage signal to the two LNAs 14a, 14b, based on the applied voltage signal from receiver 20. Each LNA 14a, 14b is preferably powered by this regulated voltage...'. Section 0029 of the claimed invention further discloses '...in Figure 4, the output of regulator 46 is looped back to radio receiver 20 via path 25a. Thus, as can be readily appreciated by those skilled in the art, not only can the loop-back circuit of the present invention be used to determine whether two antennae are connected to a radio receiver, but the inventive circuit can also be used to detect whether LNA module 14 is connected and/or whether the LNA module's voltage regulator is generating an output signal...'.

The regulator being powered by the first voltage signal or the signal generating source, the regulator receiving power from said detection signal, and the regulator powered by the signal generating source are not mentioned in the claimed invention. The LNAs (14a, 14b) being powered by the regulated voltage provided by the voltage regulator is only disclosed in the claimed invention.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. The term "being powered by" in claims 1 and 18 is a relative term which renders the claim indefinite. The term "being powered" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Please the claim rejections under the first paragraph of 35 U.S.C. 112.

Art Unit: 2645

5. The term "is powered by" in claim 10 is a relative term which renders the claim indefinite. The term "is powered by" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Please the claim rejections under the first paragraph of 35 U.S.C. 112.

Page 4

- 6. The term "supplying power to" in claim 25 is a relative term which renders the claim indefinite. The term "supplying power to" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Please the claim rejections under the first paragraph of 35 U.S.C. 112.
- 7. The term "receiving power from" in claim 25 is a relative term which renders the claim indefinite. The term "receiving power from " is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Please the claim rejections under the first paragraph of 35 U.S.C. 112.

Art Unit: 2645

Response to Amendment

Page 5

8. Applicant's arguments with respect to claims 1, 3-25, and 27-29, have been considered

but are moot in view of the new ground(s) of rejection.

9. Accordingly, this action is **FINAL**.

Conclusion

10. A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

11. Any response to this action should be mailed to:

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Or faxed to:

(703) 872-9306 (for formal communications intended for entry)

Or call:

(571) 272-2600 (for customer service assistance)

Art Unit: 2645

12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lisa Hashem whose telephone number is (571) 272-7542. The

examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Fan Tsang can be reached on (571) 272-7547. Any inquiry of a general nature or

relating to the status of this application or proceeding should be directed to the Group

receptionist whose telephone number is (571) 272-2600.

Information regarding the status of an application may be obtained from the Patent 13.

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 16, 2005

FAN TSANG

SUPERVISORY PATENT EXAMINED

Page 6

TECHNOLOGY CENTER 2600